

Ready....



JPL

...Set....

MATRA MARCONI SPACE



THE UNIVERSITY of WISCONSIN MADISON



BUREAU OF METEOROLOGY



Institut Pierre Simon Laplace

AEROJET

UMBC
AN HONORS UNIVERSITY IN MARYLAND

BAE SYSTEMS

TRW



...GO!!!

AIRS Science Team Meeting Working Session Tuesday 12 February 2002

Funding Status

Launch Preparations

IEEE papers

Launch Readiness Reviews

Action Items from November 2002 meeting

AIRS Science Team Meeting Working Session Tuesday 12 February 2002

Launch Preparations

L = launch likely at 2:30 am PDST 18 April 2002

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prelaunch press conference L-1    3:00pm
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reception 6:00pm

bus pickup 11:00pm

JPL will make block reservation for AIRS at Solvang.

when EOS Aqua arrives at Vandenberg

need room count for AIRS

AIRS Team meeting on 17-19 April 2002

Validation implementation plan

Early level 1b validation details

AIRS Science Team Meeting Working Session Tuesday 12 February 2002

Funding Status

All contracts extended to 31 December 2002

Nominal funding

NRA 6/27/2002 (competitive reviewed proposals)

RFP 6/27/2002 (for JPL operations budget)

Proposals due 7/26/2002

Selection 12/16/2002

AIRS Science Team Meeting Working Session Tuesday 12 February 2002

IEEE Special Issue Papers

call for papers in December 2001 IEEE/IGRS

special editors appointed

papers due at editor 2 April 2002

16 AIRS/AMSU/HSB Abstracts received

(AMSR/E 5 papers, MODIS 5 papers, CERES 2 papers + 1 overview)

Typical paper 7-14 pages (21-42 pages double spaced typed)

Page cost for AIRS/AMSU/HSB papers borne by JPL AIRS project

Electronic submission in IEEE specified two column format

AIRS Team contributions to the EOS Aqua (EOS PM) pre-launch special issue of the IEEE Transactions on Geoscience and Remote Sensing.

Status 8 Feb 2002

Draft on thunder.jpl.nasa.gov/hha = 4

Draft in progress = 6

Status to be clarified = 6

Due at editor on 2 April 2002

"AIRS/AMSU/HSB on the Aqua Mission. Design, Science Objectives and Data Products",
Aumann, Chahine, Gautier, Goldberg, Kalnay, McMillin, Revercomb, Rosenkranz, Smith, Staelin, Strow and Susskind

"AIRS Prelaunch Radiometric Characterization and Inflight calibration", Thomas S. Pagano^{*a},
Hartmut H. Aumann^a, Ken Overoye and Denise Hagan

"AIRS Prelaunch Spectral Characterization and In-orbit Calibration", L. Strow, S. Hannon, M. Weiler, S. Gaiser and H. Aumann

"AIRS Prelaunch Spatial Characterization and In-flight Calibration", D. Gregorich, T. Pagano, H. Aumann and Steve Broberg

"AIRS Visible/Near-infrared Instrument and its applications",
Gautier, C. S. Yang and M. Hofstadter

“Co-Alignment and Synchronization of the AIRS Instrument Suite”, Bjorn H. Lambrigtsen, Sung-Yung Lee, Rudolf A. Schindler

“AMSU/HSB instruments, prelaunch calibration and level 1b software”, Lambrigtsen et al.

“AIRS Radiative Transfer Algorithm Development and Validation”, L. Strow, S. Hannon, S. Desouza-Machado, D. Tobin, H. Motteler

“Rapid Forward Model for AMSU/HSB Channels”, P.W. Rosenkranz

“Retrieval of atmospheric and surface parameters from AIRS/AMSU/HSB data under cloudy conditions” , J. Susskind, C. Barnet and J. Blaisdell

“AIRS Near Real-Time Products in Support of Global Data Assimilation for Medium Range Weather Forecasting”, Mitchell D. Goldberg¹, Larry M. McMillin¹, Walter Wolf², Lihang Zhou², Yanni Qu³, Murty Divakarla³

“Airs Standard Data Product Validation and Tuning”, Larry McMillin,
Mitch Goldberg, Sisong Zhou, HanJung Ding

“AIRS Validation from Drifting Buoy Observations and Real-time,
Global, Sea Surface Temperature Analysis”, Denise Hagan, George Aumann,
Jean Thiebaut

“Validation of AIRS/AMSU/HSB precipitation estimates”,
Frederick W. Chen and David H. Staelin

“AIRS Cloud-clearing Using Multi-spectral MODIS Imagery”, W.L. Smith,
D. K. Zhou, and H.L. Huang

“AIRS Science Processing System (ASPS): A Description of Architecture
and Capabilities”, Steve Friedman, Evan M. Manning, and Quentin Sun

Action Items from the November 2001 Science team meeting

Bob Atlas: Check DAO problems reading the NESDIS BUFR data set.

Status: Unknown

hha: Who is the contact for BUFR data at Meteo France?

Status: Closed: Answer: Florence Rabier (She used to be at ECMWF).

Goldberg: Investigate the source of the angle asymmetry in the simulated data.

Status: Unknown

Susskind: What is the source of the 0.2K cold bias in the cloud-cleared radiances?

Status: To be reported at Feb2002 science team meeting

Gautier/Hofstadter: vis/IR boresight alignment of 2km at launch+4 months needs to be factored into use of VIS for clear identification.

Status: Closed: IOM for Gautier explaining guard band strategy for VIS.

Friedman: Cron jobs needed to routinely pull in TMI and RTG files into TDS for correlative data used in Level 2 SST product validation.

Status: Next TDS version

Karnik: Level 2 rev 2.1.6 software access via the DAAC for Schluessel, as agreed to in MOA.

Status: Friedman working on it.

Action Items from the November 2001 Science team meeting

Of the initial 25 open items 15 closed

Action Items from the November 2001 Science team meeting

Friedman: Strow wants subsetting data file at JPL (ala Goldberg 0.5 x 2 degree).

Clarify requirement.

Status: Demo April 2002

Susskind: GSFC Shelter temperature has 2K cold bias. Why?

Status: to be discussed at AIRS Science team meeting Feb 2002

Gunson: Bug in the JPL statistics, which makes the level 2 results look not as good as they are, need to be fixed.

Status: Closed: Bug fixed

McMillin: Tobin concerned about PREQC quality control. McMillin to check why PREPQC stop at 5km altitude and how to extend to make them usable for ops-calc.

Status: Done. Final Verification at JPL pending

Susskind: GSFC needs emissivity estimate (using synthetic regression), else retrieval stops. Over ocean use Masuda model.

Status: Talk on "Land retrievals" by Chris Barnett at Feb 2002 Science team meeting

Action Items from the November 2001 Science team meeting

Gunson: Joel concerned that cloud-clearing principle component reconstruction score threshold=1.5 used by Goldberg's regression is too harsh. Test at JPL with relaxed score?
Status: Closed: Parameter relaxed.

Pagano: Shortwave channel NEN slightly increases with scene radiance. Distribute model.
Status: Closure IOM at <ftp://thunder.jpl.nasa.gov/hha>

Atlas: DAO can not use 15 december 2000 simulation. DAO needs simulated AIRS data for "Nature run". Specify requirements.
Status: Unknown

Fetzer: Aqua transit predict program for the val teams.
Status: Unknown (Came up again at the 24 January telecon)

Huang: International "ARM/CART" sites:
Format of data interchange and state of atmosphere determination not worked out.
Status: Prototype software ready. Waiting for sample data

Jim Yoe: Generate GPS total water prescription and distribute to make sure that the global GPS set is consistent. This could be a useful data set.
Status: Unknown

Schlüssel: Open FTP pull account for Garmisch and Toulouse validation site sample data. JPL to test.
Status: ftp account set up at eumeto. Pending verification by JPL

Action Items from the November 2001 Science team meeting

Calheiros: Open FTP pull account for Brazilian validation site sample data. JPL to test.
Status: Unknown

Goldberg: Next team meeting 12-14 February 2002 at WWB. Goldberg to verify room availability.

Status: Closed: Reservation made at FOB#4 Suitland Room 1306

HHA: IEEE paper distribution informal review copy due at JPL 15 January 2002.

Status: Closed: Status emailed on 17 January 2002.

HHA: Check with Dehghani with regards to TDS IEEE paper.

Status: Closed: Softcopy emailed to Friedman

hha: AIRS PR script on forecast impact to Bob Atlas.

Status: Closed: Movie frames for 24jan2000 bust received from Joe Ardizzoni.

Karnik: Access to password protected WEB site for international team members (maybe AO valteam members as well).

Status: Unknown.